

CONTRACT CHANGE ORDER MEMORANDUM

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TO: Pete Siegenthaler, Prin TE /			FILE: E.A. 04 - 0120F4	
FROM: Kannu Balan, Senior TE			CO-RTE-PM SF-80-13.2/13.9	
			FED. NO.	
CCO#: 154	SUPPLEMENT#: 0	Category Code: CHPT	CONTINGENCY BALANCE (incl. this change) \$172,932,044.81	
COST: \$0.00 INCREASE <input type="checkbox"/> DECREASE <input type="checkbox"/>			HEADQUARTERS APPROVAL REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
SUPPLEMENTAL FUNDS PROVIDED: \$0.00			IS THIS REQUEST IN ACCORDANCE WITH ENVIRONMENTAL DOCUMENTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
CCO DESCRIPTION: Concrete Deficiencies			PROJECT DESCRIPTION: CONSTRUCT SELF-ANCHORED SUSPENSION BRIDGE	
Original Contract Time: 2490 Day(s)	Time Adj. This Change: 0 Day(s)	Previously Approved CCO Time Adjustments: 501 Day(s)	Percentage Time Adjusted: (including this change) 20 %	Total # of Unreconciled Deferred Time CCO(s): (including this change) 3

THIS CHANGE ORDER PROVIDES FOR:

Resolution of a specification issue related to mass concrete, which on one occasion did not meet the temperature requirements in the Contract. The mass concrete exceeded the requirements of Special Provisions Section 10-1.45, "CONCRETE STRUCTURES," subsection "MASS CONCRETE," subsection "Thermal Control Plan" for the W2 Cap Beam's pour 3 median deck and the top 3 ft of the diaphragm and East/West walls. The maximum temperature at the center of the concrete mass peaked at 75°C, which exceeded the allowable maximum temperature of 65°C, due to a faulty cooling loop. Per the Special Provisions, the Contractor shall pay \$100 per m3 for the 561.76 m3 deficient concrete, revise the Thermal Control Plan, and provide proof of soundness of the suspect concrete placed. The Contractor transmitted letter #694 dated September 30, 2008, and a technical report by CTL dated August 29, 2008. The technical report provides analyses of the concrete temperatures in the mass concrete, the PCC chemistry, and the potential detrimental effects the high temperature may have had on the concrete qualities required under the contract. The report prepared under PE license (Civil #67953) concluded that the elevated temperature will not effect the long term durability of the concrete. The Department's due diligence, including review of the facts and recommendations by METS, was culminated in Department letter #2921 dated November 5, 2008, accepting the Contractor's recommendations.

The Contractor did not meet the requirements of Special Provisions Section 90-9 "COMPRESSIVE STRENGTH," subsection "GENERAL," for the Cable Tie-Down Cover Slabs. As the result of a single compressive strength test at the maximum age specified or allowed is below 95% of the specified strength the Contractor shall pay \$20 per m3 for the 4.8 m3 deficient concrete. Per the test results, the concrete achieved a compressive strength of 6,720 psi compared to the 8,700 psi required per contract. The Design JV has evaluated the covers for the tested concrete strength and approves the covers as fit-for-purpose.

Since the cost for these change order items has been included in Contract Change Order (CCO) No. 160 resolution costs, the net payment in this change order is zero.

A determination of the delay in completion of the contract due to work specified by Contract Change Order 154 has been made in CCO 160; therefore, no adjustment of time is warranted by reason of this change order.

This change order resolves Request For Information (RFI) No. 1959 with respect to the changes listed above.

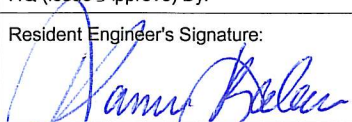
This change order has concurrence from Peter Siegenthaler (Principal TE), Marwan Nader (Design JV), and Ken Beede (METS). Maintenance concurrence is not required for this change.

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CONCURRED BY:		ESTIMATE OF COST	
Construction Engineer:	Date	THIS REQUEST	TOTAL TO DATE
Bridge Engineer:	Date	ITEMS	\$0.00
Project Engineer: HQ Materials, Ken Beede	Date 11/5/10	FORCE ACCOUNT	\$0.00
Project Manager:	Date	AGREED PRICE	\$0.00
FHWA Rep.:	Date	ADJUSTMENT	\$0.00
Environmental:	Date	TOTAL	\$0.00
Other (specify): PCE, Pete Siegenthaler, Prin TE	Date 10/7/10	FEDERAL PARTICIPATION	
Other (specify): Design of Record, Marwan Nader,	Date 11/13/09	<input type="checkbox"/> PARTICIPATING <input type="checkbox"/> PARTICIPATING IN PART <input checked="" type="checkbox"/> NONE <input type="checkbox"/> NON-PARTICIPATING (MAINTENANCE) <input type="checkbox"/> NON-PARTICIPATING	
District Prior Approval By:	Date	FEDERAL SEGREGATION (if more than one Funding Source or P.I.P. type)	
HQ (Issue Approve) By:	Date	<input type="checkbox"/> CCO FUNDED PER CONTRACT <input type="checkbox"/> CCO FUNDED AS FOLLOWS	
Resident Engineer's Signature:	Date	FEDERAL FUNDING SOURCE	PERCENT
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